

303 R1.00 3'



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada
Tel (613) 632-5200
Fax 613 632-5246

D4149-5
Job Sheet 189165



Part No: D4149-5

Part Name: Eyebolt Stud



Part Weight: 0 lbs
Job Created: 1/21/19
Due Date: 2/20/19
Type: Stock

Job Qty: 12 pcs

D46 21 9-99

Status: New
Job Tracking No:
Created By: Dara Macdonald
Description:

Note: DWG REV C IPP REV:A NEW ISSUE 10-07-22 JLM VERIFIED BY:DD IPP Rev:B 11.03.03 as per revC DD
verf:JLM

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter / Supplier	Sign-off
					Setup Hrs	Run Hrs		
100	Doosan - 1	12 pcs	2/20/19	2/20/19	0.00	0.00	Doosan - 1	JL
120	QC 8	12 pcs	2/20/19	2/20/19	0.00	0.00	QC 8 - 12	3/65
							QC 8 - 14	7.1K 19/02/12
							QC 8 - 17	
							QC 8 - 20	
							QC 8 - 25	
							QC 8 - 3	
							QC 8 - 32	
							QC 8 - 33	
							QC 8 - 35	
							QC 8 - 38	
							QC 8 - 39	
							QC 8 - 4	
							QC 8 - 44	
							QC 8 - 45	
							QC 8 - 49	
							QC 8 - 58	
							QC 8 - 8	
							QC 8 - 9	
							QC 8 - 68	
							QC 8 - 67	
							QC 8 - 1 (A)	
150	Packaging 3-1 - Stock - B4B	12 pcs	2/20/19	2/20/19	0.00	0.00	Packaging 3 - 1 - B4B	
							Packaging 3 - 2 - B4B	
							Packaging 3 - 3 - B4B	
							Packaging 3 - 4 - B4B	
							Packaging 3 - 5 - B4B	
							Packaging 3 - 6 - B4B	
							Packaging 3 - 7 - B4B	



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1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
CANADA
TEL.: 1 813 632-5200
Email: sales@dartaero.com
www.dartaerospace.com

Container No: S152228



Part: D4149-5

Job No: 189165

Serial No/Batch: S152228

Revision:

Inspector:

Exp Date:

Instructions: Various STC's

Date: 02/10/19

				Packaging 3 - 8 - B4B	
				Packaging 3 - 9 - B4B	
				Packaging 3 - 10 - B4B	
				Packaging 3 - 11 - B4B	
				Packaging 3 - 12 - B4B	
				Packaging 3 - 13 - B4B	
				Packaging 3 - 14 - B4B	
				Packaging 3 - 15 - B4B	
				Packaging 3 - 16 - B4B	
				Packaging 3 - 17 - B4B	
				Packaging 3 - 18 - B4B	
				Packaging 3 - 19 - B4B	
				Packaging 3 - 20 - B4B	
				Packaging 3 - 21 - B4B	
				Packaging 3 - 22 - B4B	
				Packaging 3 - 23 - B4B	
				Packaging 3 - 24 - B4B	
				Packaging 3 - 25 - B4B	
				Packaging 3 - 26 - B4B	
				Packaging 3 - 27 - B4B	STOBI FEB 12 2019
				Packaging 3 - 28 - B4B	
				Packaging 3 - 29 - B4B	
				Packaging 3 - 30 - B4B	
				Packaging 3 - 31 - B4B	
				Packaging 3 - 32 - B4B	
				Packaging 3 - 33 - B4B	
				Packaging 3 - 34 - B4B	DAC
				Packaging 3 - 35 - B4B	21
160	QC 21 - SA	12 pcs	2/20/19	0.00 0.00	QC 21 - SA - 21
					QC 21 - SA - 70

Part Op 100 - (Doosan Lathe) turn as per dwg and folio FA950
 Descriptions: 120 - (QC8- Inspect parts - second check)
 150 - Identify as per dwg & Stock Location: _____
 160 - (QC21- Final Inspection - Work Order Release)

Job BOM

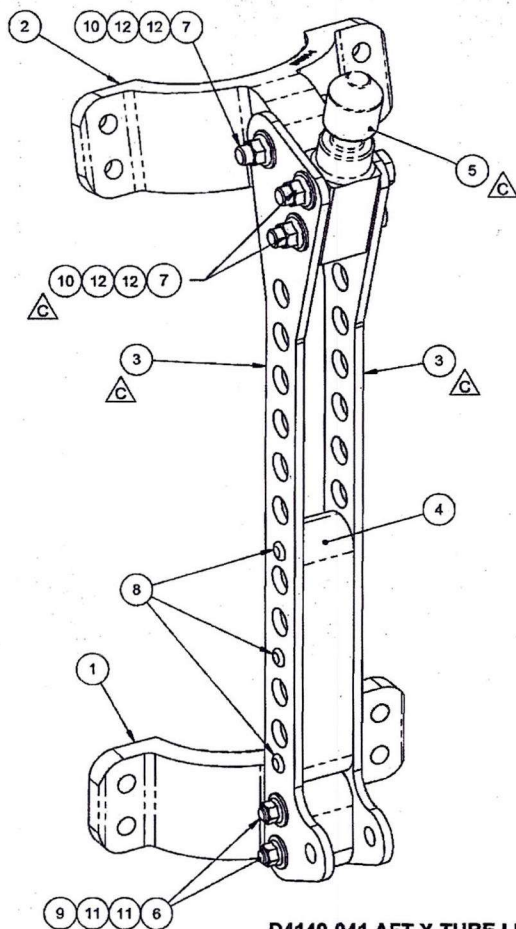
Part / Item	Component Name	Quantity	Operation	Container
M303R1.000	303 Round Bar 1.00 304	3 ft (.25 ea)	100-Doosan - 1	S127985

Job Allocations

Operation	Component Part	Required	Inventory	Allocated
100-Doosan - 1	M303R1.000	3	0	0

Part Specifications					
Spec No	Description	Target/Tolerance	Limits	Type	Special Comments
1	Eyebolt Stud	0.250Inches + 0.003 - 0.000	0.253 0.250	Diameter	
2	Eyebolt Stud	1.380Inches ± 0.030	1.410 1.350		
3	Eyebolt Stud	0.400Inches + 0.000 - 0.010	0.400 0.390		
4	Eyebolt Stud	0.700Inches + 0.010 - 0.000	0.710 0.700		
5	Eyebolt Stud	0.030Inches ± 0.010	0.040 0.020	Radius	
6	Eyebolt Stud	0.375Inches + 0.000 - 0.020	0.375 0.355	Diameter	
7	Eyebolt Stud	0.700Inches + 0.000 - 0.010	0.700 0.690	Diameter	
8	Eyebolt Stud	0.200Inches ± 0.010	0.210 0.190		
9	Eyebolt Stud	1.500Inches ± 0.010	1.510 1.490		
10	Eyebolt Stud	0.060Inches ± 0.030	0.090 0.030	Radius	
11	Eyebolt Stud	2.880Inches ± 0.030	2.910 2.850		
12	Eyebolt Stud	0.310Inches ± 0.010	0.320 0.300		
13	Eyebolt Stud	0.750Inches + 0.003 - 0.000	0.753 0.750		
14	Eyebolt Stud	0.750Inches ± 0.030	0.780 0.720		
15	Eyebolt Stud	0.735Inches ± 0.010	0.745 0.725		

Plex 1/21/19 11:49 AM Dart.Macdonald.Dara



D4149-041 AFT X-TUBE LUG ASSY

NOTES:

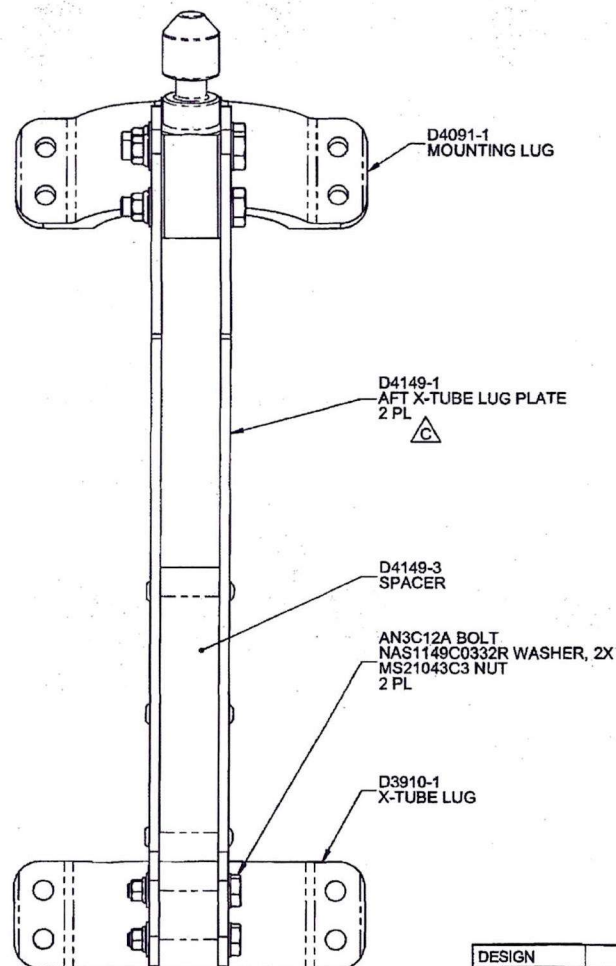
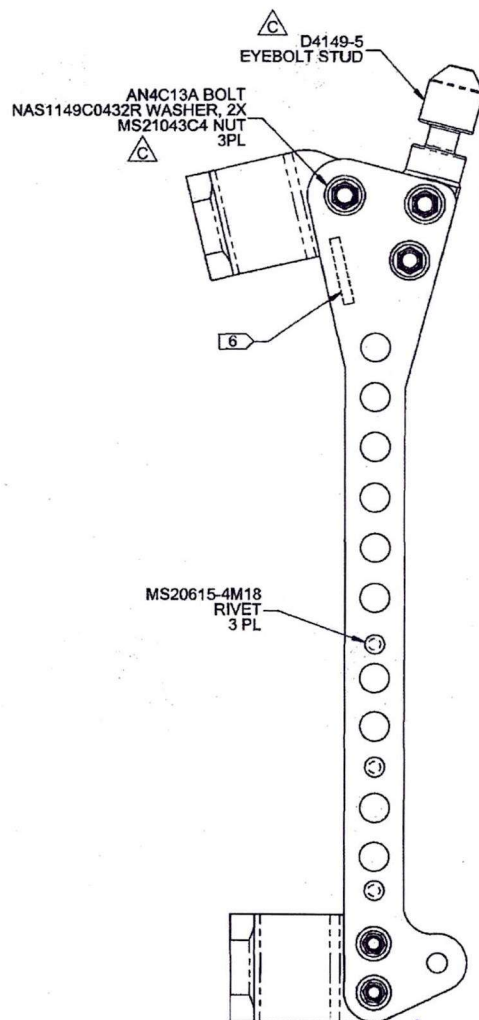
- 1) MATERIAL: N/A
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: IDENTIFY WITH DART P/N "D4149-041" USING FINE POINT PERMANENT INK MARKER
- 7) WEIGHT: 2.21 lbs

ITEM	QTY -041	P/N	DESCRIPTION
	X	D4149-041	AFT X-TUBE LUG ASSY
1	1	D3910-1	X-TUBE LUG
2	1	D4091-1	MOUNTING LUG
3	2	D4149-1	AFT X-TUBE LUG PLATE
4	1	D4149-3	SPACER
5	1	D4149-5	EYEBOLT STUD
6	2	AN3C12A	BOLT
7	3	AN4C13A	BOLT
8	3	MS20615-4M18	RIVET
9	2	MS21043C3	NUT
10	3	MS21043C4	NUT
11	4	NAS1149C0332R	WASHER
12	6	NAS1149C0432R	WASHER

RELEASSED
2011-02-26

C	HOLE DIA CHANGED TO 0.252" (D8-3); HOLE DIA CHANGED TO 0.250" (C8-5); REPLACED QTY(2) AN3C12A, MS21043C3 AND QTY(4) NAS1149C0332R WITH QTY(2) AN4C13A, MS21043C4 AND QTY(4) NAS1149C0432R (D3-1, D7-2)	SC	11.02.22
B	MS20615-4M18 WAS MS20615-4M20 (ZN D3-1 & B7-2); ADDED D4149-5 (SHT 5); D4149-5 WAS D3909-5 (ZN D3-1 & D7-2); REPLACED QTY(3) MS20615-4M18 WITH QTY(2) EACH AN3C12A, MS21043-3 AND QTY(4) NAS1149C0332R WASHER (ZN D3-1, C7-1, B7-2 & B3-2); Ø0.191 2 PL REPLACES Ø0.129 3 PL (ZN D8-3). REASON: SEE TR-D350-607-2 REV. B.	MB	10.07.05
A	NEW ISSUE	MB	10.06.18
REV.	DESCRIPTION	BY	DATE
DESIGN	MB	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	SC		
CHECKED		DRAWING NO.	REV. C
MFG. APPR.		D4149	SHEET 1 OF 5
APPROVED		TITLE	SCALE
DE APPR.		AFT X-TUBE LUG ASSY	NTS
DATE	11.02.22	COPYRIGHT © 2010 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE REPRODUCED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	

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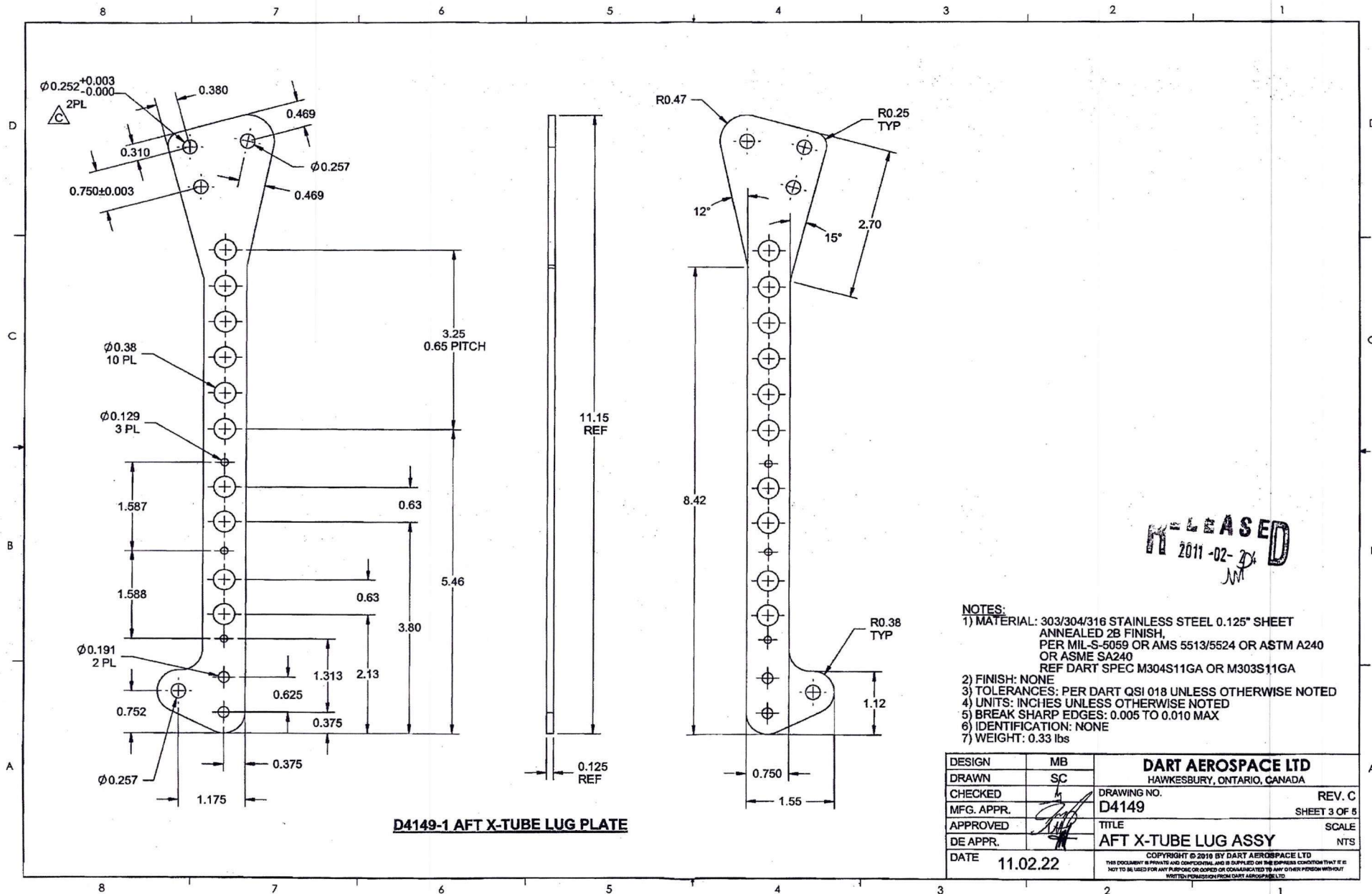


D4149-041 AFT X-TUBE LUG ASSY

RELEASED
2011-02-24
MP

DESIGN	MB	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	SC		
CHECKED		DRAWING NO.	REV. C
MFG. APPR.		D4149	SHEET 2 OF 5
APPROVED		TITLE	SCALE
DE APPR.		AFT X-TUBE LUG ASSY	NTS
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8 7 6 5 4 3 2 1



- NOTES:**
- 1) MATERIAL: 303/304/316 STAINLESS STEEL 0.125" SHEET
ANNEALED 2B FINISH,
PER MIL-S-5059 OR AMS 5513/5524 OR ASTM A240
OR ASME SA240
REF DART SPEC M304S11GA OR M303S11GA
 - 2) FINISH: NONE
 - 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
 - 4) UNITS: INCHES UNLESS OTHERWISE NOTED
 - 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
 - 6) IDENTIFICATION: NONE
 - 7) WEIGHT: 0.33 lbs

DESIGN	MB	DART AEROSPACE LTD	
DRAWN	SC	HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. C
MFG. APPR.		D4149	SHEET 3 OF 6
APPROVED		TITLE	SCALE
DE APPR.		AFT X-TUBE LUG ASSY	NTS
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Entered: _____ Date: _____



WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

NCR No.:

Route update only ☐

Job: _____ Part No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐	DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Eng. (Non-AW) ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Engineering ☐ Water Jet ☐ Supplier ☐ Quality ☐			
Date :	Sequence #:	QTY Affected :		MRB (QSI042)	
Description Work Order Deviation			Disposition		
			Completed By		
			Lead hand / Supervisor		
			QC / QA Coordinator		
Root Cause Operator ☐ Manufacturing Process ☐ Equip/Tooling ☐ Handling/Preservation ☐ Material ☐ Product Improvement ☐ Process Improvement ☐ Human Factors ☐		FAULT CATEGORY ☐ Pressure/Forced ☐ Bending ☐ Crushing ☐ Cracks ☐ Crimp/Kink/Ripple/Wave/Twist ☐ Marks/Chatter ☐ Mislabeled ☐ Contamination ☐ Misaligned/off center ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Incomplete/Unclear Instructions ☐ Drill Holes ☐ Fit/Function ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain Direction ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set/Set-up ☐ Positioned Wrong ☐ Outside Tolerance ☐ Drawing ☐ Finish ☐ Part Lost/Missing ☐ Misread			
Other/Details:					